

**COMBINED DECLARATION AND POWER OF ATTORNEY**

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,  
CONTINUATION, OR C-I-P)

As a below named inventor, I hereby declare that:

**TYPE OF DECLARATION**

This declaration is of the following type:

- ☒ original.
- ☐ design.
- ☐ supplemental.
- ☐ national stage of PCT.
- ☐ divisional.
- ☐ continuation.
- ☐ continuation-in-part (C-I-P).

**INVENTORSHIP IDENTIFICATION**

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

**TITLE OF INVENTION**

**SPACE-TIME AND SPACE-FREQUENCY HOPPING FOR CAPACITY ENHANCEMENT OF  
MOBILE DATA SYSTEMS**

**SPECIFICATION IDENTIFICATION**

The specification of which:

- (a) ☒ is attached hereto.
- (b) ☐ was filed on \_\_\_\_\_, as ☐ Serial No. 0 / \_\_\_\_\_ or  
☐ \_\_\_\_\_ and was amended on \_\_\_\_\_ (*if applicable*).
- (c) ☐ was described and claimed in PCT International Application No. \_\_\_\_\_ filed  
on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_ (*if  
any*).

**SUPPLEMENTAL DECLARATION (37 CFR 1.67(b))**

☐ I hereby declare that the subject matter of the

☐ attached amendment

☐ amendment filed on \_\_\_\_\_.

was part of my/our invention and was invented before the filing date of the original application, above identified, for such invention.

**ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

☐ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

**PRIORITY CLAIM (35 U.S.C. § 119(a)-(d))**

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(d) ☒ no such applications have been filed.

(e) ☐ such applications have been filed as follows.

**PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION  
AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)**

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING DAY, MONTH, YEAR	PRIORITY CLAIMED UNDER 35 USC 119	
			[ ] Yes	[ ] No
			[ ] Yes	[ ] No
			[ ] Yes	[ ] No

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)**  
(35 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

**PROVISIONAL APPLICATION NUMBER****FILING DATE**

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_/\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)**  
**UNDER 35 U.S.C. § 120**

☐ I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s) or § 365(b) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior U.S. or PCT international application in the manner provided by the first paragraph of Title 35, U.S.C. § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

APPLICATION SERIAL	FILING DATE	STATUS

**ALL FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS**  
**(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**POWER OF ATTORNEY**

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

David H. Tannenbaum, Reg. No. 24,745;  
Michael A. Papalas, Reg. No. 40,381;  
R. Ross Viguet, Reg. No. 42,203;  
Michael J. Fogarty, III, Reg. No. 42,541;  
Jody Bishop, Reg. No. 44,034;  
Thomas J. Meaney, Reg. No. 41,990;  
Matthew Jones, Reg. No. 44,810;  
William B. Tiffany, Reg. No. 41,347 and



Attorney's Docket No. 47586-P063US-10026081

**PATENT**

Leslie S. Garmaise, Reg. No. P 47,587 .

SEND CORRESPONDENCE TO

DIRECT TELEPHONE CALLS TO:

David H. Tannenbaum  
FULBRIGHT & JAWORSKI L.L.P.  
2200 Ross Avenue, Suite 2800  
Dallas, Texas 75201.

R. Ross Viguet  
(214) 855-8185

### DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

### SIGNATURE(S)

*NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other document.*

**Full name of second joint inventor, if any: Ravi Narasimhan**

Inventor's signature: Ravi Narasimhan

Country of Citizenship: U.S.A.

Date: 9 May 2001

Residence: 1540 Neston Way Los Altos, CA 94024

Post Office Address: 1540 Neston Way Los Altos, CA 94024

**Full name of sole or first inventor: Piu Bill Wong**

Inventor's signature: Piu Bill Wong

Country of Citizenship: China

Date: 5/4/01

Residence: 17280 Clara Street, Monte Sereno, CA 95030

Post Office Address: 17280 Clara Street, Monte Sereno, CA 95030

**Full name of third joint inventor, if any: Shimon B. Scherzer**

Inventor's signature: Shimon B. Scherzer

Country of Citizenship: U.S.A.

Date: 5/4/01

Residence: 1648 Mariani Drive, Sunnyvale, CA 94087

Post Office Address: 1648 Mariani Drive, Sunnyvale, CA 94087

**Full name of third joint inventor, if any: Jiangfeng Wu**

**Inventor's signature:** \_\_\_\_\_



**Country of Citizenship: Canada**

**Date:** 05/04/2001

**Residence: 350 Budd Avenue, Apt. I-7, Combell, CA 95008**

**Post Office Address: 350 Budd Avenue, Apt. I-7, Combell, CA 95008**